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Procedure for making solid electrolyte as thin layer on porous electrode for fuel-cell - has suspension of electrode particles poured over electrode which is then dried and resulting thin layer (1-20 microns thick) is sintered

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Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 19626342	A1	19980108	DE 1026342	A	19960701	199807 B

Priority Applications (No Type Date): DE 1026342 A 19960701

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 19626342	A1		4	H01M-004/88	

* Abstract (Basic): DE 19626342 A

A procedure for making a thin electrolytic layer on a porous electrode includes the of pouring a suspension with electrode particles as the solid component over the electrode. Then the electrode is dried. The diameter of the particles is then chosen so that the layer arising after sintering on the electrode has a medium pore size which is smaller by a factor of at least two than the medium pore size of the electrode.

A further identical suspension is poured over the electrode, followed by drying and further sintering. The layer thickness is between one and twenty microns, preferably five microns.

ADVANTAGE - Improved gas-tightness of the electrolyte layer and improved properties of the electrode/electrolyte combination.

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Derwent Class: X16

International Patent Class (Main): H01M-004/88

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